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October 1, 1958

4004

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Subject: Proposal, Service Test
Model - TEM

Dear Sir:

Per discussion with your technical monitors, we are quoting on your requirements for a ruggedized TEM device, designated TEM-A.

The end result of this work will be Model TEM-A, engineering drawings and specifications completely describing the fabrication and test of this item.

The details of this program are outlined in attached technical proposal.

We anticipate funds expenditures in the amount of \$57,380.40 as shown in attached cost estimate sheet.

The work outlined above will take place over a period of nine (9) months. We propose to perform this on a best efforts, cost-plus-fixed-fee basis. An extension to Task Order "C" is a satisfactory way to proceed contractually if you desire.

Due to personnel usage common to several of your tasks now being processed, it is desirable that we begin this work within a period of thirty (30) days.

Yours very truly,

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P R O P O S A L

Service Test Model TEM

1.0 Scope

1.1 Development: Design, develop and fabricate TEM device to meet the following specifications.

1.1.1 Function: To deliver on demand twenty bit decimal coded binary train of pulses representing up to 100,000 minutes. Function will be identical with that previously developed under Task "C".

1.1.2 Operation Environment: TEM shall operate under environments as outlined below:

HUMIDITY: Operate satisfactorily while cased, after a four (4) hour soak at 100% R.H. A desiccant will be provided internally to take up moisture after the case is sealed.

ALTITUDE: Operate satisfactorily while cased at an altitude of 40,000 feet at -40 degrees, centigrade.

FUNGUS: Operate satisfactorily after test procedure outlined in MIL-T-152A.

VIBRATION: TEM-A shall be operated for five (5) minutes and function properly while being subjected to 10g vibration, 5 to 55 cps.

SHOCK: Operate satisfactorily while being subjected to shock of 15g, 11 millisecond duration.

TEMPERATURE: Operate satisfactorily while subjected to -40 degrees and +70 degrees, centigrade.

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1.2 Fabrication: We plan to fabricate and deliver one final model of TEM-A. There will be several interim breadboard devices fabricated during test and evaluation phases. TEM-A will be completed and evaluated between the sixth (6th) and ninth (9th) month of this program.

1.3 Test and Varification: We have the facilities and instrumentation necessary to evaluate the environmental performance of the developed item.

1.4 Engineering Drawings and Specifications: We plan to complete engineering drawings of sufficient detail and accuracy to allow the manufacture of this item by group of uninitiated, but competent personnel. We will provide a specification for the assembly and test of this item by stages.

1.5 Reports:

1.5.1 Bi-monthly reports will be made covering accomplishment. This will consist of description of technical problems and accomplishments suitably illustrated with engineering drawings.

1.5.2 Final Report will be submitted at the end of this task summarizing the accomplishment. A review of post work documented with engineering drawings and photographs will be supplied. Conclusions and recommendations for further action will complete the report.

1.6 Technical Variations from TEM:

1.6.1 TEM-A will utilize up to 1000 MAH electrical power over the 60 day interval. There will be no change in the operating voltage level.

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- 1.6.2 TEM-A may incorporate on electric wind mechanism if further analysis reveals that the present mainspring is too acceleration sensitive.
- 1.6.3 If a mainspring is retained, the wind knob will be brought to a capped part hole. This will allow winding without removal of the case.

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SERVICE TEST MODEL TEM

Cost Estimate

Material \$

Project Engineering Labor - 1100 hrs.
 Design Engineering Labor - 1600 hrs.
 Drafting Labor - - - 2000 hrs.
 Technician Labor - - - 1600 hrs.
 Model Maker Labor - - - 2000 hrs.

Burden -

G & A -

Fixed Fee

TOTAL \$ 57,380.40

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